PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

in re application of

Docket No: Q92973

Mitsuru YAMAMOTO, et al.

Appln. No.: 10/566,580

Group Art Unit: Not Yet Assigned

Confirmation No.: Not Yet Assigned

Examiner: Not Yet Assigned

Filed: January 31, 2006

For:

DIAPHRAGM PUMP AND COOLING SYSTEM WITH THE DIAPHRAGM PUMP

SUBMISSION OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

For the Examiner's convenience, enclosed herewith is a copy of the English translation of the International Preliminary Report on Patentability (IPRP). It is assumed that copies of the cited references as required by §371(c) will be supplied directly by the International Bureau, but if further copies are needed, the undersigned will undertake to provide them upon request.

Respectfully submitted,

SUGHRUE MION, PLLC Telephone: (202) 293-7060 Facsimile: (202) 293-7860

washington office 23373

CUSTOMER NUMBER

Date: June 27, 2006

Woward L. Bernstein Registration No. 25,665

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

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Minato-ku, Tokyo
1070052
JAPON

APR 1 3, 2006

Date of mailing (day/month/year) 06 April 2006 (06.04.2006)	06.4.14
Applicant's or agent's file reference NEC04P033A	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/010339	International filing date (day/month/year) 21 July 2004 (21.07.2004)
Applicant	NEC CORPORATION et al

1.	Transmittal	of th	e translation	to	the applicant.
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1		The International Bureau transmits herewith a copy of the English translation of the international preliminary r patentability (Chapter I).	eport on
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP, KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Yoshiko Kuwahara

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 90 90

Form PCT/IB/338 (January 2004)

PATENT COOPERATION TREATY

Translation

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

						
	n's or agent's file reference 04P033A		URTHER ACTION	See Form PCT/IPEA/416		
	onal application No.	Internati	onal filing date (day/month/year)	Priority date (day/month/year)		
	/JP2004/010		07.2004	04.08.2003		
	onal Patent Classification					
	B43/04, 45/					
Applican	at .			·		
NEC	CORPORATION	Ŋ				
L						
1.	This report is the interrunder Article 35 and tra	national preliminary exansmitted to the applican	amination report, established by t t according to Article 36.	his International Preliminary Examining Authority		
2.	This REPORT consists	of a total of	sheets, inclu	ading this cover sheet.		
3.	This report is also accor	npanied by ANNEXES,	comprising:			
	a. (sent to the	applicant and to the Inte	ernational Bureau) a total of	sheets, as follows:		
	sheets	of the description, clain	ns and/or drawings which have be	en amended and are the basis for this report and/or		
	sheets Instruc	containing rectifications tions).	s authorized by this Authority (see	Rule 70.16 and Section 607 of the Administrative		
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
			Comment of the Commen			
	D (sent to the	петанопан вигеан оп	ly) a total of (indicate type and nu	mber of electronic carrier(s))		
	containing a sequence listing and/or tables					
	related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4.	This report contains ind	ications relating to the f	ollowing items:			
	Box No. I	Basis of the report				
	Box No. II	Priority				
Box No. III Non-establishment of opinion with Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article citations and explanations supporti Box No. VI Certain documents cited			opinion with regard to povelty, in	continue stars and industrial applicability.		
				ventive step and industrial applicability		
			ions supporting such statement	overty, inventive step or industrial applicability;		
			ed			
	Box No. VII	Certain defects in the	international application			
	Box No. VIII		on the international application			
Date of s	submission of the demand					
Duic Or 3	submission of the delight	•	Date of completion of	i inis report		
Name an	nd mailing address of the	IPFA/IP	Authorized officer			
	is maning dudiess of the		Authorized officer			
Facsimile	e No		Telephone No.			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/010339

Bo	x No. I	Basis of the report	······································	
1.	With regard	I to the language, this report is based on the internation der this item.	onal application in the language in	which it was filed, unless otherwise
	which	report is based on translations from the original langua is the language of a translation furnished for the purp international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4	ooses of:	
2.	this report):	international preliminary examination (Rule 55.2 and it to the elements of the international application, this ffice in response to an invitation under Article 14 and its international application as originally filed/furnished escription:	report is based on (replacement	sheets which have been furnished to the originally filed" and are not annexed to
	pages	1-2, 6-7, 11-12		as originally filed/furnished
	pages pages			09.05.2005
	the cla		received by this Authority on	
	nos.	10-13		as originally filed/furnished
	nos.*		as amended (togethe	er with any statement) under Article 19
	nos.*	1-9	received by this Authority on	09.05.2005
	nos.*		received by this Authority on	
		awings:		
	sheets sheets		received by this Authority on	as originally filed/furnished
	sheets		•	
	a segu	nence listing and/or any related table(s) – see Supplem	•	india.
3.		mendments have resulted in the cancellation of:	eman box Relating to Sequence L	isung.
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
				,
4.	This t	report has been established as if (some of) the amend have been considered to go beyond the disclosure as fil	lments annexed to this report and	listed below had not been made since
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
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	If item 4 ap	plies, some or all of those sheets may be marked "supe		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/010339

Box No. V	Reasoned statement citations and expla	nt under Ar nations sup	ticle 35(2) with regard to novelty, inventive step or industrial applicability; oporting such statement	
1. Statement	-			
Novelty	(N)	Claims	1-13	YES
		Claims		NO
Inventiv	ve step (IS)	Claims	1-13	YES
		Claims		NO
Industri	al applicability (IA)	Claims	1-13	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP 2000-87862 A (Citizen Watch Co., Ltd.), 28

March 2000, paragraphs [0016] to [0024] and

fig. 1 (Family: none)

The invention set forth in claim 1 is novel and involves an inventive step in relation to document 1. The inclined wall on the interior of the pressure chamber in the invention that is disclosed in document 1 is a wall that is mounted to the upper surface of the pressure chamber as opposed to being the peripheral wall of the pressure chamber itself. In addition, the invention that is set forth in the present application exhibits an effect whereby it is possible to increase the speed of the flow on the downstream side in the flow direction due to the fact that the present invention is recessed.

Claims 2 to 13 are dependent claims that cite claim 1; therefore, the inventions that are set forth in claims 2 to 13 are also novel and involve an inventive step.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
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Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

The Japanese language disclosure "zenki toshutsu-gawa ryuuryou no sorezore haichi sareru" in claim 9 includes particles that are used in an inappropriate manner (perhaps this is a typographical error?).